Accessing Information, Alert and Alarm Activation

For current infusion data

While the infusion is running, repeatedly press **INFO** to display:

Press 1 – Infused and volume to be infused
Press 2 – Battery level
Press 3 – Protocol review screens
Press 5 – Boluses attempted and given
Press 6 – Clinician boluses
Press 7 – Date and time/occlusion pressure

From the main menu

- If infusion running, press **STOP/NO**
- Press and hold **STOP/NO**
- Scroll up/down through the menus using **+/-**
- To view the option selected, press **START/YES**

When an ALERT is activated

1 The infusion continues. 2 Three beeps are heard approximately every 3–4 minutes. 3 A screen message alternates with the Infusion Running screen

When an ALARM is activated

1 The infusion stops. 2 The LED indicator turns red. 3 An audible alarm activates (this continues until the alarm is silenced or the problem is rectified). 4 A screen message displays indicating the cause.

Troubleshooting

Screen	Result/Cause	Action	Screen	Result/Cause	Action
Low Battery	Approx 30 minutes of battery life remaining	Connect to power lead	**End Battery**	Pump stops	Connect to power lead
Syringe Nearly Empty	Current infusion is almost complete. Alerts occur for time, volume or number of boluses, whichever occurs first	Prepare to change syringe or turn pump off	**Syringe Empty Remove Syringe Press YES**	Current infusion programme has completed	Turn the pump off or change the syringe to start a new infusion
Syringe Displaced, Check Syringe	One or more of the syringe detection sensors is not detecting	Check the syringe and re-seat as necessary	**Occlusion/Syringe Empty, Check Line and Syringe**	Clamp on the infusion line, or tubing is occluded/kinked. Pump has reached the minimum travel position	Release the clamp. Flush or replace access device as per local policy. Clear the occlusion
Incorrect Access Code	Incorrect code has been entered	Use **+/-** to enter correct numerals	**Pump Paused Too Long**	The pump has been paused/on stand-by for more than 2 minutes	Restart infusion, continue pause, or turn power off
System Error. Press and hold INFO for details. If problem persists send pump for service	An internal system error has occurred	If pressing **INFO** does not provide adequate information to resolve error, take pump out of use. Press **INFO** to obtain error message. Record error code, summarise fault and return to designated service centre	**Error Startup MotStop Fail Turning pump OFF and ON may resolve**	An internal system error has occurred	If error recurs, take pump out of use. Press **INFO** to obtain error message. Record error code, summarise fault and return to designated service centre

TPCA Pain Management Pump

Quick user guide

Feature recognition

1 **Infrared light to connect to BodyComm**
2 **Power ON/OFF**
3 **Operation LED infusion running alarm/paused state**
4 **FF (forward) moves actuator forward**
5 **Back moves actuator backwards**
6 **Plus (+) scrolls between options**
7 **Minus (-) scrolls between options**
8 **START/YES confirms choices**
9 **INFO displays technical data and battery status**
10 **STOP/NO 'a' takes user back a step; 'b' stops pump**
11 **LCD screen displays infusion status/programming**

CME McKinley Device Training Is RCN-Accredited

Summary guide only (based on pump default settings).
Refer to Operation Manual for full instructions and information.
Users must have undertaken training before operating this device.
Screen information is representative only.
NOTE: Some wording or screen information on early pump versions may differ slightly from those shown here.

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Starting an Infusion for a New Patient

SCENARIO: Use a 50ml BD Plastipak syringe with 50ml volume. Manually prime the line. Select Protocol B. Purge the line during set up. Use key to open locking cover and press ON/OFF key to power up

Syringe Pump SV: xxxxxxx ID: xxxxxxxx	Pump name, software version and pump ID displays
Enter Level 1 Code 0 Set +/- & Press YES	Use the +/- keys to enter access code. Press START/YES to confirm
Press YES to Resume NO for New Therapy	To allow protocol selection, press STOP/NO for New Therapy
Protocol Lock ON Select +/- , Press YES	Use +/- keys to select Protocol Lock OFF. Press START/YES to confirm
SELECT PROTOCOL A: Morphine 1mg B: Morphine 2mg Select +/-, Press YES	Use +/- keys to select the Protocol required. Press START/YES to confirm
B: Morphine 2 mg Rate 2 ml/hr Min. 0 ml/hr Max. 20 ml/hr Press YES to Confirm	Read Protocol summary screens. ALWAYS ENSURE THE PROTOCOL DISPLAYED MATCHES THE PRESCRIPTION. Press START/YES to confirm
Bolus rate 300 ml/hr Lock out 5 min Bolus dose 2ml(0-20 ml) Press YES to Confirm	
Syringe Sizes Enabled 50-60 ml Press YES to Confirm	Syringe sizes that can be used for this protocol. Press START/YES to confirm
Pre-Loading PRESS NO TO STOP	Actuator is moving to the last syringe start position
26/11/2008 16:45 Occlusion 540mmHg Titration Enabled Battery Status 79%	During actuator movement pump settings are displayed. Check pump settings and load syringe

Load Syringe	Load Syringe graphic flashes until the syringe is detected by the three sensors
50ml BD Plastipak Press YES to Confirm or +/- for options	Displays syringe brand and size detected. Press START/YES to confirm. Close and lock locking cover
Purge System Slack?	If purge not required, press NO (screen will forward to Syringe Deliverable Volume). If purge required, press START/YES to confirm
WARNING! Disconnect patient from the pump Press YES to Confirm	ENSURE LINE IS DISCONNECTED FROM THE PATIENT BEFORE PURGING. Press START/YES to confirm
Hold FF key to purge Purge 0.00ml Press NO when done	Press and hold FF/Back key until system slack is removed
Purge completed Press NO when done	If full purge volume is delivered, purge completion is shown and screen moves forward automatically. Alternatively, press STOP/NO to confirm completion
*50ml BD Plastipak Volume 49.8 Press YES to Confirm	Screen confirms syringe deliverable volume Press START/YES to confirm
B: Morphine 2 mg Rate 2 ml/hr Min. 0 ml/hr Max. 20 ml/hr Press YES to Confirm	Read Protocol summary screens. ALWAYS ENSURE THE PROTOCOL SELECTED MATCHES THE PRESCRIPTION. Press START/YES to confirm
Bolus rate 300 ml/hr Lock out 5 min Bolus dose 2ml (0-5 ml) Press YES to Confirm	
Start Protocol?	Press START/YES to start the infusion

Infusion Running Screens

B: Morphine	
Rate	0 ml/hr
Bolus	1 ml
Lock out	5 mins
Last bolus	- mins
<<<<< Pump Operating	

B: Morphine	
Rate	0 ml/hr
Bolus	1 ml
Lock out	5 mins
Last bolus	- mins
50 ml BD Plastipak	

Bottom line of screen information will alternate during infusion

Bolus Dose Titration

SCENARIO: Change bolus volume from 2ml to 1ml. While infusion is running, press +/- key (if rate titration is also enabled, press twice)

Bolus Dose Titration Press YES to Continue	Press START/YES to confirm
Bolus Dose Titration Enter Level 1 Code 0 Set +/- & Press YES	Enter access code, press START/YES to confirm
Patient Bolus Dose 2 ml (0-5 mls) Set +/and Press YES	Use +/- keys to select bolus dose required. Press START/YES to confirm
B: Morphine Rate 0ml/hr Bolus 1 ml Lock out X mins Last bolus X mins <<<<< Pump Operating	Observe bolus dose displayed on Infusion Running screen

Rate Titration

Rate titration is activated in the same way as bolus titration (if configured), so follow the sequences described above. Press the +/- key once to activate the Rate Titration screen.

NOTE: Any change of rate or bolus volume becomes the default for that programme. These are retained in the current programme unless manually changed or if NEW THERAPY is selected.

Syringe Change

At the end of an infusion (Syringe Empty alarm):

- To confirm end of infusion alarm, press START/YES
- Press STOP/NO then turn power off by pressing ON/OFF
- Clamp line
- Unlock and open locking cover
- Remove empty syringe
- Power pump on by pressing ON/OFF
- Follow screen sequences. When 'Press Yes to Resume, No for New Therapy' screen displays, press START/YES to retain protocol and infusion history
- When 'Load Syringe' screen displays load the new, pre-prepared syringe
- Follow screen prompts to start the infusion

NOTE: Purge is not available when resuming an infusion.

Clinician Activated Bolus (Authorised Personnel Only)

1. Press **STOP/NO** to pause current infusion
2. Press the **FF** key
3. Enter relevant access code, press START/YES to confirm
4. Enter bolus volume required using the **+** or **-** keys, press START/YES to confirm

If the requested dose is outside the pre-set limits the pump will return to step 3. Re-enter the access code and repeat step 4.

On completion of bolus delivery the infusion will resume.